



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

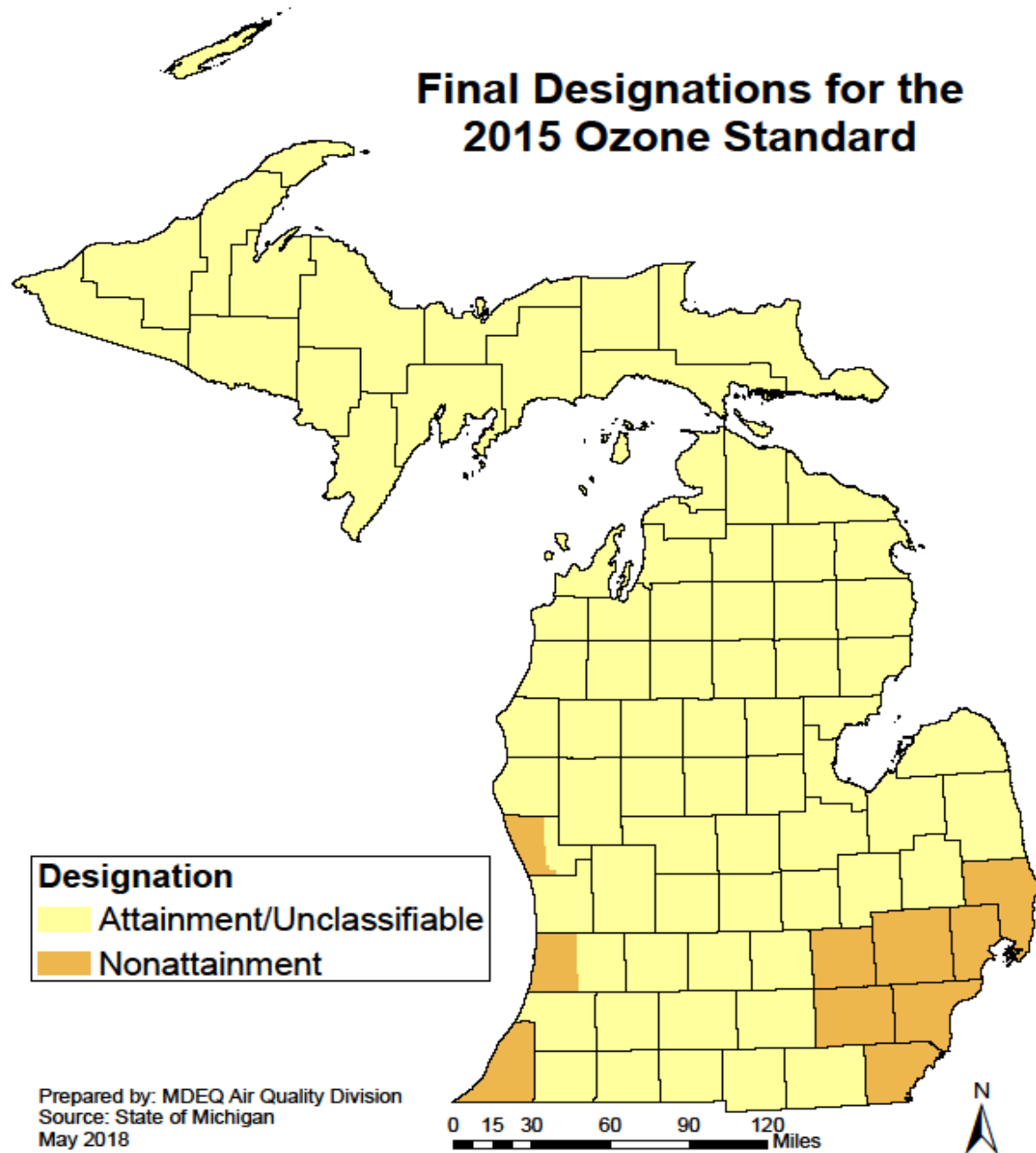
Ozone Nonattainment in SE Michigan

Robert Irvine

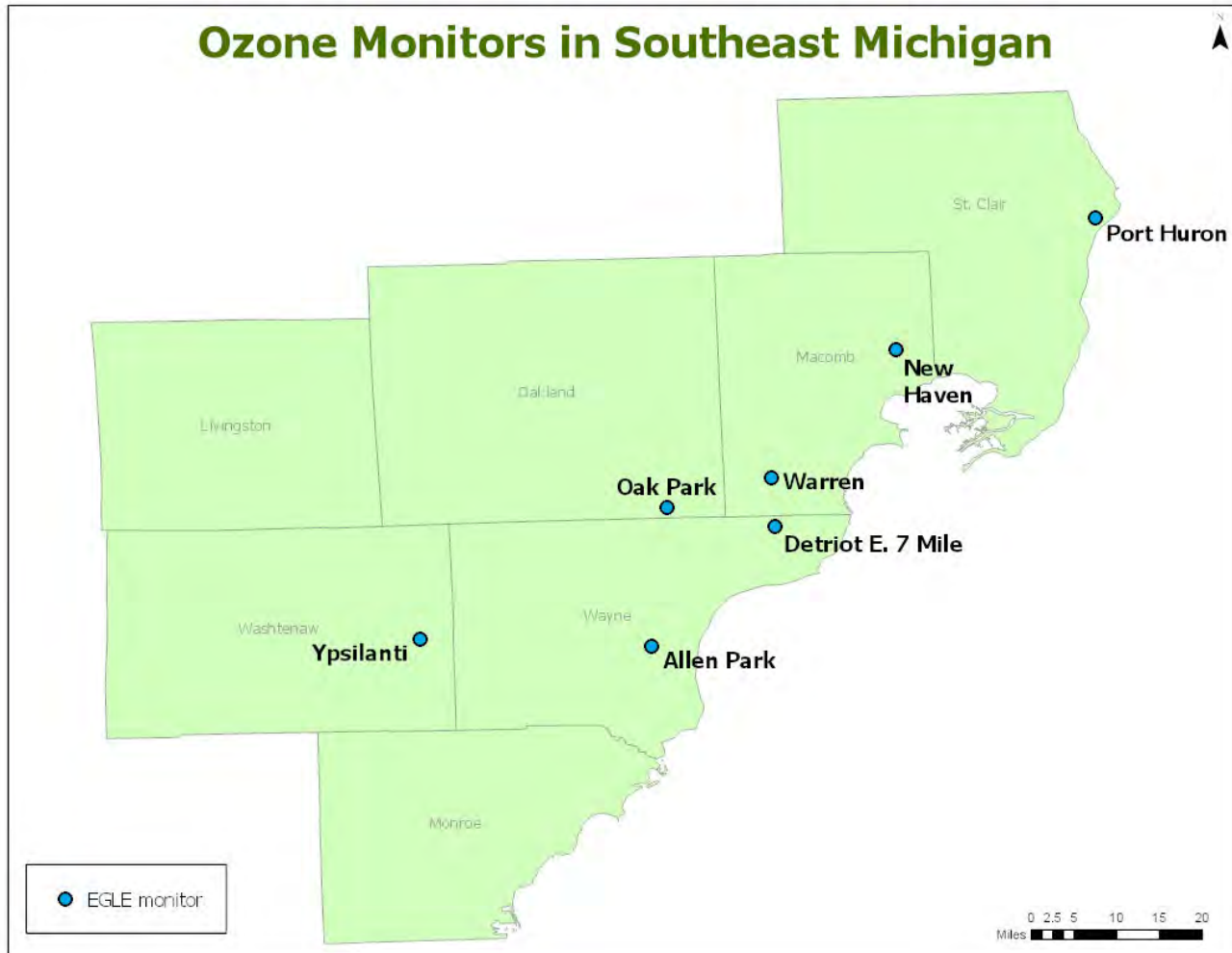
Air Advisory Council December 2019

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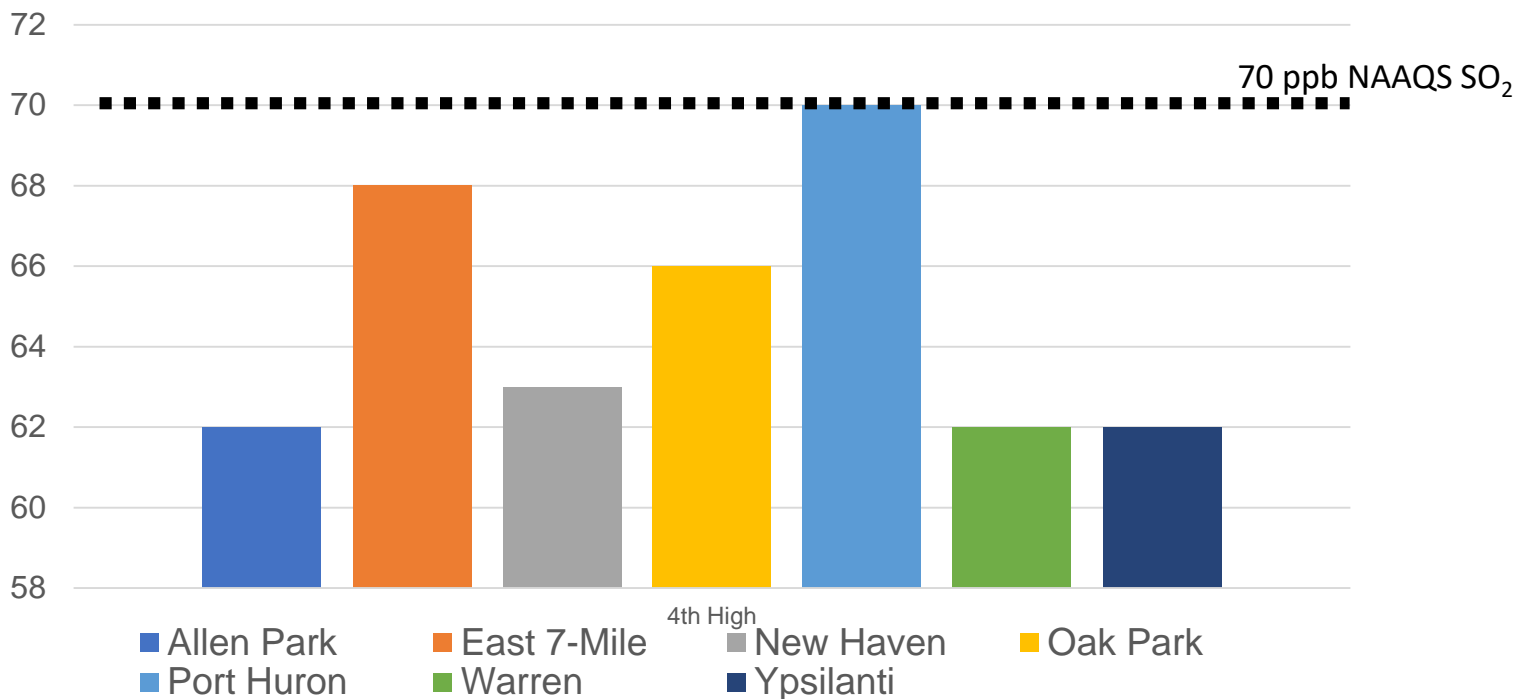
2015 Marginal Nonattainment Areas



Ozone Monitors in Southeast Michigan



Current* 2019 SE MI Ozone NAA 4th Highest 8-Hr Ozone Value



*non-validated monitoring data as of 10/31/2019

**Attainment is determined by
Design Value (DV) calculation.
All 7 ozone monitors must have
a DV at or below the 70 ppb
NAAQS by August 2021.**

**2021 DV = Average of
2018 + 2019 + 2020,
where each year represents the
4th high maximum daily 8 hour
ozone value at that monitor for
that ozone season.**

2021 DV Pt. Huron

$$2021 \text{ DV} = 2018 + 2019 + 2020$$

$$70.667 \text{ ppb} = (77 + 70^* + \underline{65})/3$$

To get a 2021 attainment DV, need 4th high daily ozone value in 2020 no higher than 65 ppb.

*Current highest 4th high
(Port Huron monitor)

2021 DV Oak Park

$$2021 \text{ DV} = 2018 + 2019 + 2020$$

$$70.667 \text{ ppb} = (77 + 66^* + \underline{69})/3$$

To get a 2021 attainment DV, need 4th high daily ozone value in 2020 no higher than 69 ppb.

*Current highest 4th high
(Oak Park monitor)

2021 DV E 7 Mile

$$2021 \text{ DV} = 2018 + 2019 + 2020$$

$$70.667 \text{ ppb} = (74 + 68^* + \underline{70})/3$$

To get a 2021 attainment DV, need 4th high daily ozone value in 2020 no higher than 70 ppb.

*Current highest 4th high
(East 7 Mile monitor)

What Happens in a Bump-Up?

- **For Marginal Areas that Fail to Attain**
 - Clean Air Act timeline of 6 months for EPA to reclassify or “bump-up” ~February 3, 2022
 - Moderate attainment planning requirements (controls) likely due prior to start of 2023 ozone season
 - Moderate attainment date: **August 3, 2024**
 - Possible 1 year extension *

Marginal vs Moderate Clean Air Act Requirements

Requirement	Marginal	Moderate
NSR Offsets	1.1 to 1	1.15 to 1
Attainment Date	3 years (2021)	6 years (2024)
VOC and NOx RACT	No	Yes
15% VOC RFP Reductions	No	Yes
Basic I/M Program	No	Yes

RACT Evaluation

- Workgroup for review and resources
- Existing VOC RACT rules update, including coating and printing rules
- Possible new VOC RACT rules, including coating, printing, wood furniture, solvents, adhesives
- Possible new NOx RACT rules

Additional Control Programs

- Additional VOC controls; up to 15% of VOC inventory
- New Inspection/Maintenance program for autos and light-duty trucks

Michigan Department of
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